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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/668,675	09/22/2000	David Alan Ackerman	27-15-1-13-11-2	2242	
75	90 04/23/2003				
Docket Administrator Rm 3C 512 Lucent Technologies Inc 600 Mountain Avenue			EXAMINER		
			SCOTT JR, LEON		
P O Box 636 · Murray Hill, NJ 07974-0636			ART UNIT	PAPER NUMBER	
17141145 11111, 110	0,57,000		2828	<u></u>	
•		·	DATE MAILED: 04/23/2003	DATE MAILED: 04/23/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A - H-offen No	-4(-)			
•	_	Application No.	App. ant(s)			
Offic Action Summary		09/668,675	ACKERMAN ET AL.			
•	The Action Summary	Examiner	Art Unit			
TL	MAU INC DATE of this communication and	Leon Scott, Jr.	2828			
Period for Re	e MAILING DATE of this communication app ply	gears on the cover sheet with the c	orrespondence address			
THE MAIL  - Extensions after SIX (6  - If the period  - If NO period  - Failure to re  - Any reply re	ENED STATUTORY PERIOD FOR REPL' ING DATE OF THIS COMMUNICATION. of time may be available under the provisions of 37 CFR 1.1 MONTHS from the mailing date of this communication. for reply specified above is less than thirty (30) days, a repl of or reply is specified above, the maximum statutory period opply within the set or extended period for reply will, by statute ceived by the Office later than three months after the mailing interm adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
	sponsive to communication(s) filed on					
// <u></u>		nis action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition o		Expanto stadylo, 1000 C.D. 11, 4	3.3. 210.			
4)⊠ Clai	m(s) <u>1-28</u> is/are pending in the application	١.				
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)∐ Clai	Claim(s) is/are allowed.					
6)⊠ Clai	Claim(s) <u>1-28</u> is/are rejected.					
7)∐ Clai	claim(s) is/are objected to.					
8)∐ Clai	m(s) are subject to restriction and/o	r election requirement.				
Application P	apers					
9) <u> </u>	specification is objected to by the Examine	er.				
10) <u></u> The o	drawing(s) filed on is/are: a)□ acce	pted or b)  objected to by the Exa	miner.			
	plicant may not request that any objection to th		, i			
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
	path or declaration is objected to by the Ex	aminer.				
<u></u>	r 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
· —	b) Some * c) None of:					
	1. Certified copies of the priority documents have been received.					
_	2. Certified copies of the priority documents have been received in Application No					
3. <u>□</u> * See th	Copies of the certified copies of the prio application from the International Bu ne attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	-			
14)∏ Ackno	wledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119(e	e) (to a provisional application).			
	The translation of the foreign language pro owledgment is made of a claim for domest					
Attachment(s)		. , , , , , , , , , , , , , , , , , , ,				
2) Notice of D	eferences Cited (PTO-892) raftsperson's Patent Drawing Review (PTO-948) Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)			
S. Patent and Trademar	v Office		battle .			

Primary Examiner

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In line 4 of claim 1 it is not clear what action is performed on the DBR laser, clam 1 is indefinite and incomplete. Same claim same line it is not clear how said action is responsive to a wavelength of a Bragg peak; if the laser is not lasing, how is a wavelength of Bragg peak achieved, what wavelength, what Bragg peak; claim 1 is indefinite and incomplete. The recitation: the light reflected in line 5 of claim 1 lacks a clear antecedent basis. It is not clear how or to what the tuning current is applied during the illuminating, nor is it clear how the tuning current connectively relates to the device as a whole; claim 1 is Indefinite and incomplete. Finally in claim 1 since the laser is not on it is not clear what does the illuminating; claim 1 is indefinite and incomplete. In claim 2 it is not clear how the Fabry-Perot cavity is biased to absorb incident light: incident light from what, claim 2 is indefinite and incomplete, in lines 1-3 of claim 3 the Illuminating includes: supplying another current to the DBR laser, however since a laser comprises many parts, it is n t clear t what part of the laser the curr nt is appli d t caus sp ntan us emissi n of light, is th curr nt supplied t th laser active m dium; lines 1 and

3 f claim 3 is indefinite and inc mplete, In lin s 1 and 2 f claim 5 it is n t clear h w th acti n includes finding a functional relationship that associates new values of the tuning current with old values of the tuning current; what functional relationship, claim 5 is indefinite and incomplete. Lines 1 and 2 of claims 7.8 and 11 are functional in scope in that they express a desired result while failing to recite the means and or method steps necessary to provide those results; for example how does one determine a predictive quantity, as in claim 7 or how does one mark the DBR laser as disqualified with respect to stability, as in claim 8 or how does one determine the relationships between values of a Bragg peak wavelength; claims 7, 8 and 11 are indefinite and incomplete. The recitation: the performing an act in line 1 of claim 9 lacks a clear antecedent basis. The recitation: the quantity is a characteristic of a relationship in lines 1 and 2 of claim 10 is virtually meaningless in that it is functional in scope. In line 2 of claim 13 it is not clear what constitutes a time prior to illuminating is this a day, a week, a month, o 19 milliseconds; claim 13 is indefinite and incomplete. In line 2 of claim 14 what operating characteristic; claim 14 is indefinite and incomplete. In line 4 of claim 15 what constitutes an earlier time; claim 15 is indefinite and incomplete. In line 6 of claim 16 the recitation: based in part is indefinite and incomplete. Claim 17 expresses a desired result while failing to recite the structure and/or methods steps necessary to provide that result. In line 2 of claim 18. what parameter, claim 18 is indefinite. In line 3 of claim 29, what equations; claim 20 is indefinite an incomplete. The recitation capable of in line 3 of claim 21 is indefinite. In line 5 of claim 1 it is not clear how the controller defined in line 3 as supplying a current to the terminals, is configured to determine the new value; claim 21 is indefinite and incomplete. Further in claim 21 same claim same line the r citati n based in part Is ind finite and incomplet. In line 6 of claim 21 it is n t clear that the tuning curr nt has any prepump value, n r is it cl ar that such a valu is r can be

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m asured; claim 21 is ind finite and inc mplete. In lin s 2 and 3 f claim 23 it is n t clear h w th c ntr II r is further configured to stabilize the laser claim 23 is indefinite and incomplete. In claim 24 it is not clear how the controller is configured to compensate for age-induced current drift. Further claims 23 and 24 recite desired results while failing to recite the structure and/or steps to provide those results. In line 7 of claim 25, it is not clear how the processor is configured to determine a functional relationship; claim 25 is indefinite and incomplete. In lines 7 and 8 of claim 25 what Bragg peal wavelengths; claim 25 is indefinite and incomplete. In lines 1 and 2 of claim 26, it is not clear what constitutes spontaneous emission source: spontaneous emission occurs as a result of an absorption band of an active medium being optically matched to a pump band of a pump source and energy being released from the active media in the form of a photon without a resonant condition being established, what is the spontaneous emission source; claim 326 is indefinite and incomplete. The recitation capable of in line 2 of claim 26 does not particularly point out and distinctly claim the invention in that nothing is ever illuminated, it is only capable of being illuminated; thus claim 26 is indefinite and incomplete. Since it is not clear that spontaneous emission is necessarily broadband emission, line 3 of claim 26 is inaccurate and thus indefinite and incomplete. In lines 1 and 2 of claim 27 how is the laser marked for discard; claim 27 unclear and is indefinite and incomplete.

Broberg et al is cited for its teaching of optimizing operation points of a tunable laser.

Nam et al is cited for its teaching of a tunable blue laser diode.

J hnson is cited f r Its tea hing f wavelength stabilizati n in tunable s mlc nductor lasers.

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Yamaguchi i cited f r its t aching f a wav length tunable semiconductor laser device provided with control regions.

Delorme et al is cited for its teaching of a wavelength tunable DBR laser

EP0-1195861A2 is cited for its teaching of a DBR laser processing method.

Applicants are hereby advised that claims 1-28 may, upon further review of any proposed amendment to over come the rejections of record, be given favorable.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leon Scott, Jr. whose telephone number is 703-308-4884. The examiner can normally be reached on Monday - Friday, 6:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul P. Ip can be reached on (703)308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7721 for regular communications and 703-308-2864 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-3431.

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L in Scottling.

Primary Examin r Art Unit 2828

lsjr April 21, 2003